

Title (en)
METHOD AND DEVICE TO MEASURE LINE-WIDTH USING OPTICAL SCANNING

Publication
EP 0402191 B1 19930107 (FR)

Application
EP 90401392 A 19900523

Priority
FR 8906805 A 19890524

Abstract (en)
[origin: EP0402191A1] The device is particularly useful for measuring the width of lines obtained by photogravure. It consists of a confocal optical system with a monomode light source producing a plane wavefront, an optical deflector (18, 20) to scan the line transversely, a component (26) that separates the incident beam directed towards the medium (12) carrying the line (13) from the beam reflected by the medium, and a detector. The detector consists of a knife whose edge (32) is located at the position conjugate to the focus of the lens in the optical system and transversely to the line whose width is to be measured, and a differential sensor (33), located at the position conjugate to the pupil and sensitive to the difference in the illumination on the two sides of the knife. <IMAGE>

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G01B 11/02; G01B 11/04

IPC 8 full level
G01B 11/02 (2006.01)

CPC (source: EP US)
G01B 11/02 (2013.01 - EP US)

Citation (examination)
PHILIPS TECHNICAL REVIEW, vol. 43, no. 7, July 1987, pages 184-191, Eindhoven, NL; G. PRAST: "Quantitative measurement by the Schlieren method"

Cited by
US6898537B1; US7061615B1; US6992764B1; US6713753B1; US7236244B1; US6949462B1; US7372565B1; US7115858B1; US7230705B1; US6982793B1

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DE GB IT

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